Advanced Communications Project

Communications System 2010
CAMSLANT Workflow Analysis — Final

Prepared for
The United States Coast Guard
Research & Development Center
1082 Shennecossett Rd.
Groton, CT 06340-6096

By
Ogden Government Services /
SEMCOR Inc. Team

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Section I
Introduction and Summary

1.0 INTRODUCTION

The purpose of this document is to describe and analyze the communications operations process that takes place at Coast Guard Communications Area Master Station Atlantic (COGARD CAMSLANT) Chesapeake, VA.

1.0.1 CAMSLANT Responsibilities

The Coast Guard Atlantic Area Communications System (LANTCOMMSYS) consists of five communications entities; COMLANTAREA Communication Center, COGARD CAMSLANT Chesapeake, COGARD Communications Stations (COMMSTAs) Boston, Miami, and New Orleans; six LANTAREA District Communication Centers (COMMCENs); and two Transportable Communication Centers (TCCs). The mission of LANTCOMMSYS is fourfold: to provide reliable, secure, and rapid communications to exercise command and control of LANTAREA forces in support of assigned missions; to ensure connectivity and interoperability with the National Command Authority and federal agencies; to provide a reliable and rapid interface for communications with the maritime industry, the aeronautical community, and the boating public; and to support the communications needs of government agencies upon request and as based on the urgency of the requirement. As the LANTAREA master station, CAMSLANT Chesapeake represents LANTAREA and has authority to manage and control day-to-day LANTCOMMSYS operations.

CAMSLANT tasks and responsibilities are contained in Annex Kilo to COMLANTAREA Standard Operations Procedures (SOP). In addition to providing all services of a full-service COMMSTA, CAMSLANT has responsibility in the following key areas to:

- Maintain operational status of LANTCOMMSYS facilities and communication capabilities.

- Ensure efficient communications work load distribution throughout the LANTCOMMSYS.
- Approve requests for planned communication circuit outages.
- Provide for the reallocation of communication assets during planned outages, communication casualties or minimize conditions.
- Coordinate MF and HF fleet broadcast operations and loading conditions.
- Generate frequency predictions using propagation tools and provide to other facilities and users upon request.
- Ensure prompt analysis and response is provided to communication inquiries, comments, and complaints directed to, or originated by, any LANTCOMMSYS unit.
- Establish and conduct a communication exercise program within LANTCOMMSYS.
- Establish and coordinate the LANTCOMMSYS quality control monitoring program.

  Maintain an active LANTCOMMSYS ship contact program that provides exchange of communication system information.
- Provide operational and logistics support for deployment of TCCs.

1.0.2 Workflow Analysis Task

The Coast Guard Research and Development Center has a requirement to determine how to modernize the Coast Guard's shoreside communications infrastructure. The current structure is manpower intensive and requires multiperson watches at communications stations. In support of this modernization goal, the SEMCOR/OGDEN team has been tasked to identify and document the way in which voice and data information is transferred between RF links and the shoreside networks in support of the full spectrum of Coast Guard mission areas. The task includes documenting all aspects of the CAMSLANT communications process to include information preparation, circuit and frequency

selections, transmission, verification, and follow-up actions. The task also includes review and analysis of communication station documentation. Section II of this Workflow Analysis describes in detail the CAMSLANT operational arena and the services provided therein, grouped under two subsections, *Voice Services* and *Data Services*.

This Workflow Description and Analysis of the CAMSLANT communication operations provides a thorough treatment of each voice and data service. It examines the system and subsystem interfaces that determine how information is processed within and through the CAMSLANT communications station. Manual and automated methods are considered as well as normal and alternative procedures and capabilities. Finally, applicable documents pertaining to the CAMSLANT communication operations, as well as Shipboard Communications Center Modernization reports, Communications System 2000 reports, and Coast Guard Internetworking Architecture documents, are analyzed.

1.1 APPROACH

This Workflow Description and Analysis was accomplished by documentation reviews and site visits. Relevant Coast Guard communications manuals and plans and specific communication station documentation listed in Annex A were reviewed and analyzed. Two visits were made to CAMSLANT, Chesapeake, VA, to collect and clarify data on the processes performed, existing hardware and software configurations, future support plans, and operational considerations and needs. The results of this research and analysis is presented in this report. The remainder of Section I provides a summary of findings and conclusions based on the Section II detailed description and analysis.